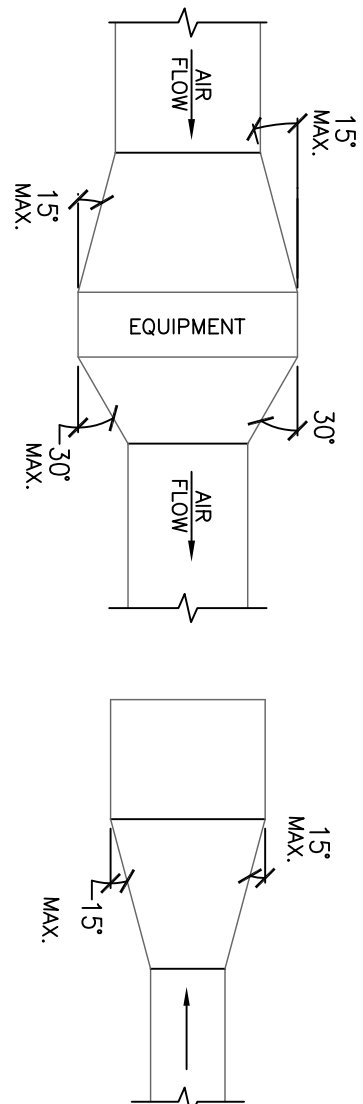
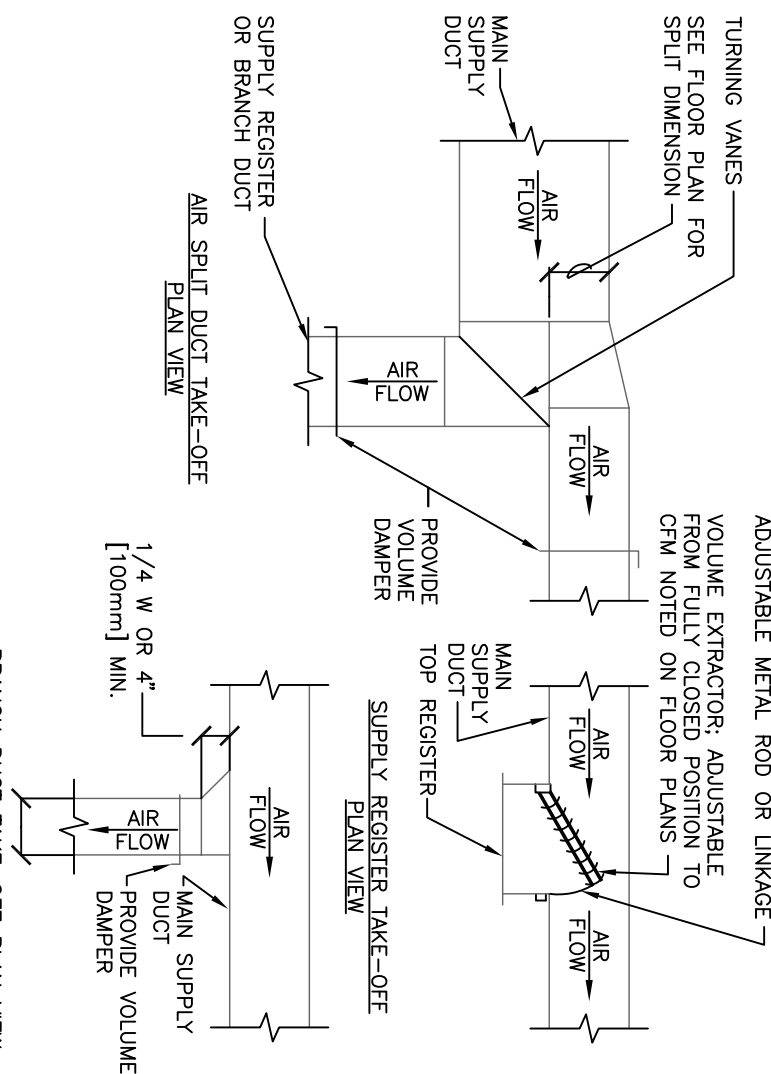


1 ACCESS SECTION FOR ROUND/OVAL DUCT
 NIS



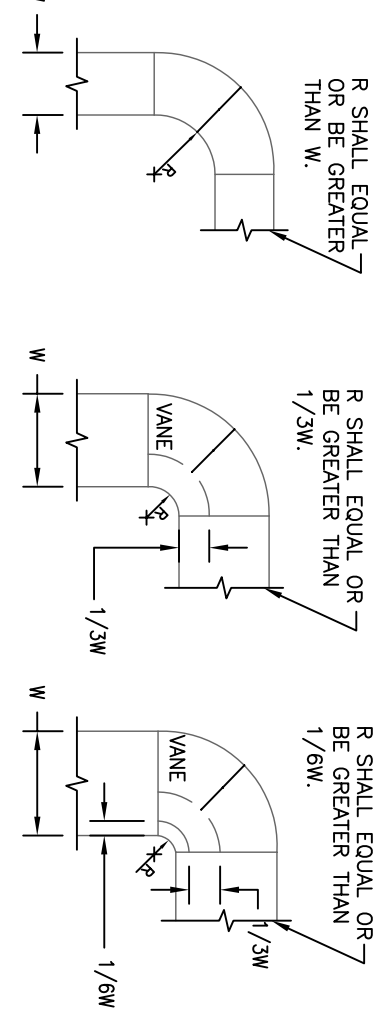
NOTE: UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

DUCTWORK TRANSITIONS



DESIGNER'S NOTES:
 1. THE SUPPLY REGISTER TAKE-OFF MAY BE USED FOR UP TO 25% OF THE MAIN DUCT CAPACITY AND UP TO 50% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM OR LESS. THE MAIN DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES AND MAY BE USED AT ANYTIME.
 2. SHOW ALL VOLUME DAMPERS ON FLOOR PLANS.

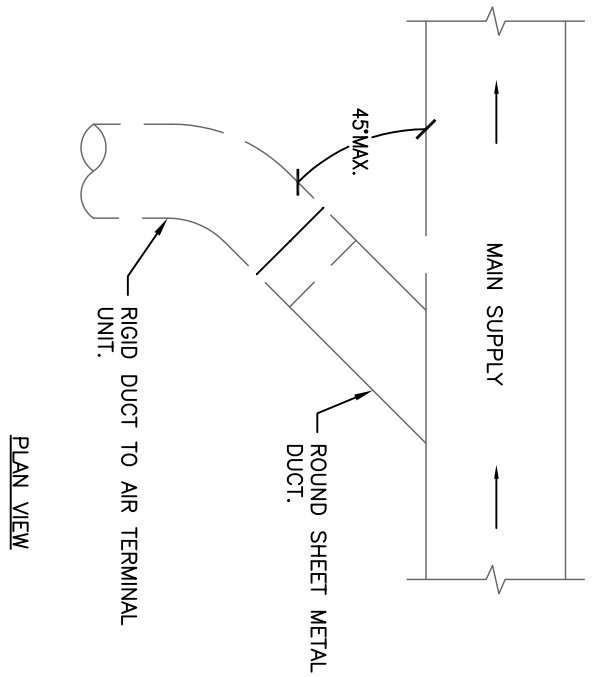
3 SUPPLY DUCTWORK TAKE-OFFS
 NIS



NOTES:

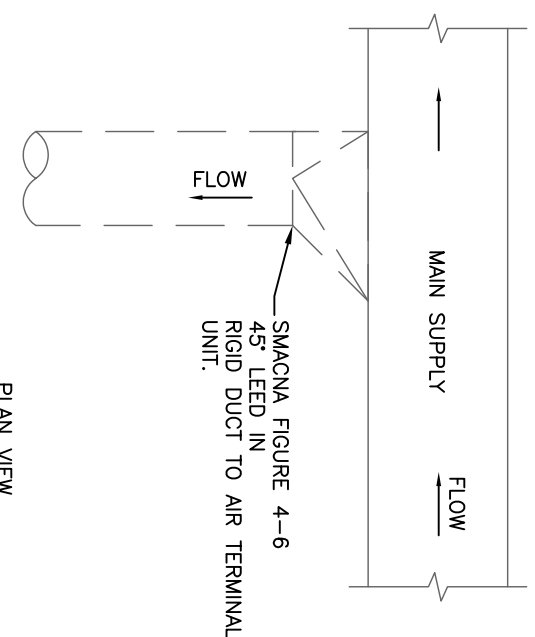
- 1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
- 2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VAINES VAINES SHALL BE CONSTRUCTED, SUPPORTED AND PROVIDED AS RECOMMENDED BY SMACNA.

4 DUCTWORK RADIUS ELBOWS
 NIS



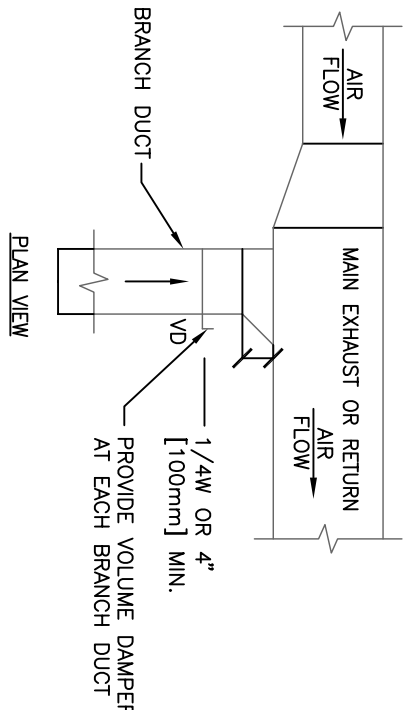
PLAN VIEW

5 SUPPLY DUCT TAKEOFF - AIR TERMINAL UNIT
 NIS



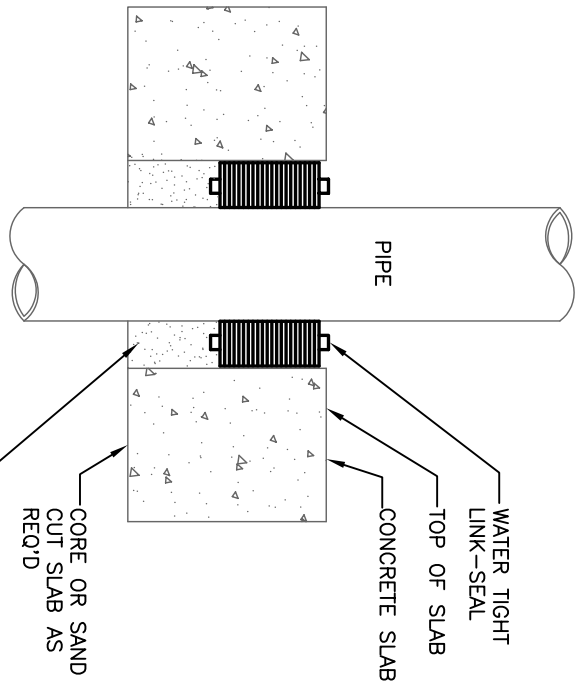
PLAN VIEW

6 ALTERNATE SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS
 NIS

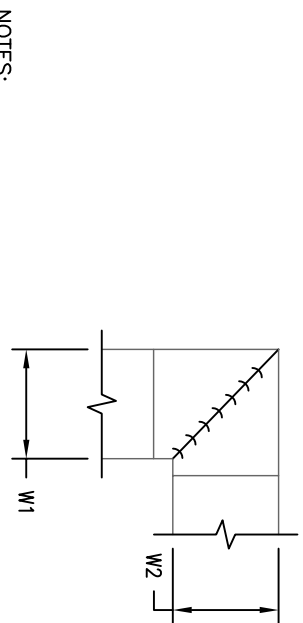


PLAN VIEW

7 EXHAUST OR RETURN BRANCH DUCTWORK
 NIS



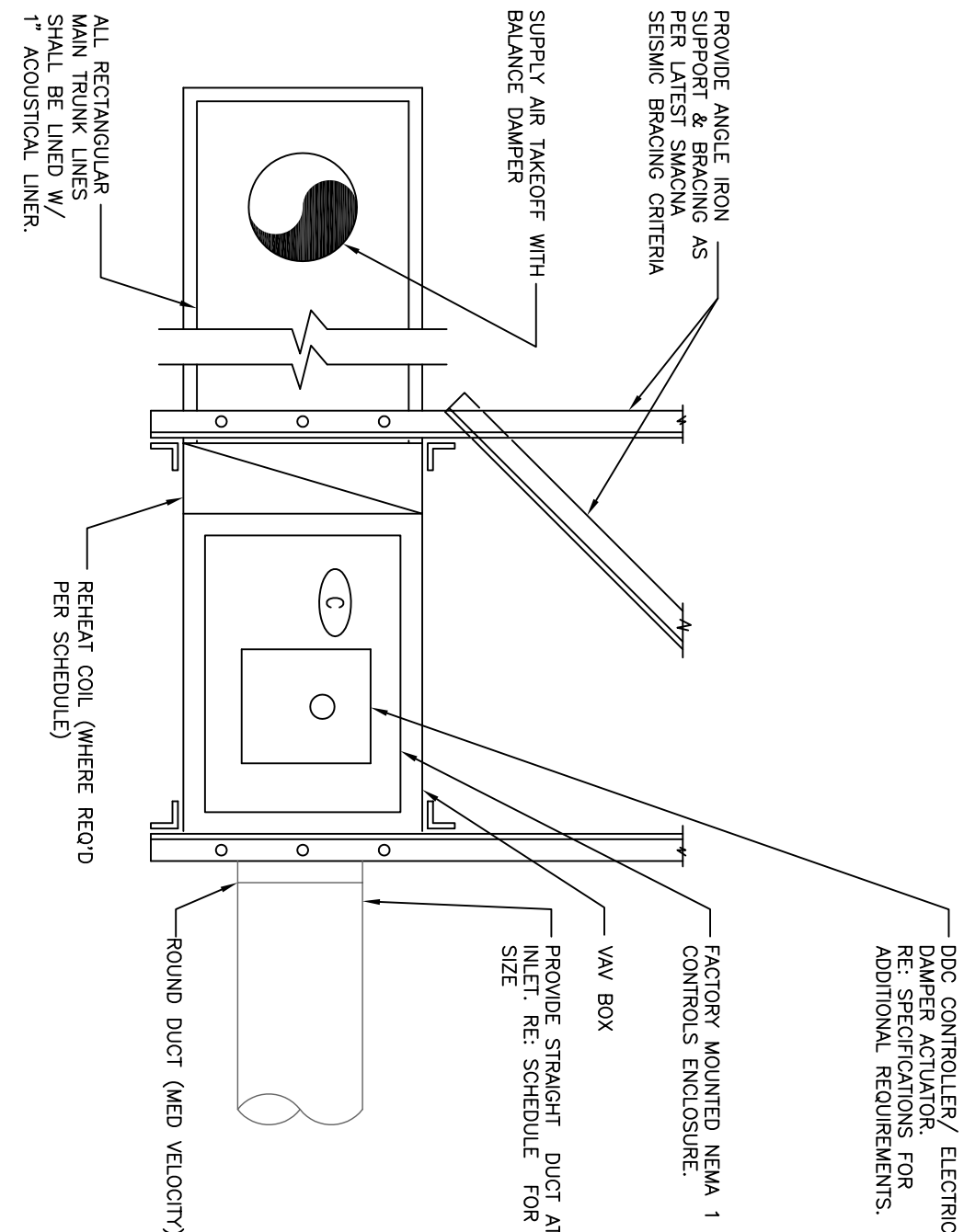
8 PIPE THRU SLAB ON GRADE DETAIL
 NIS



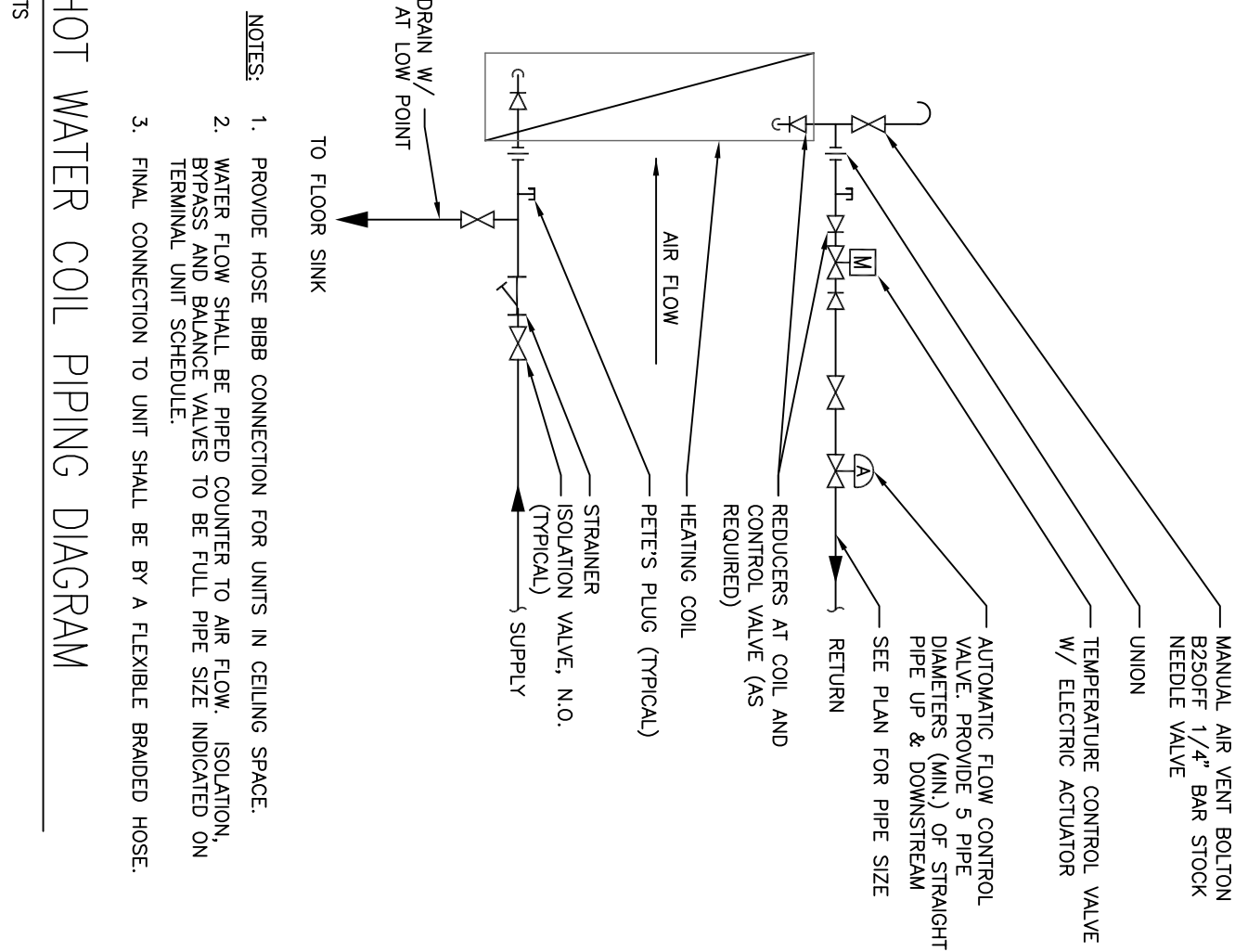
NOTES:

- 1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAIL BY SMACNA.
- 2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE.
- 3. ALL SINGLE THICKNESS VAINES SHALL HAVE A 7\"/>
- 4. WHEN W1 EQUALS W2 AND W1 IS GREATER THAN 20\"/>

9 DUCTWORK SQUARE VANE ELBOWS
 NIS



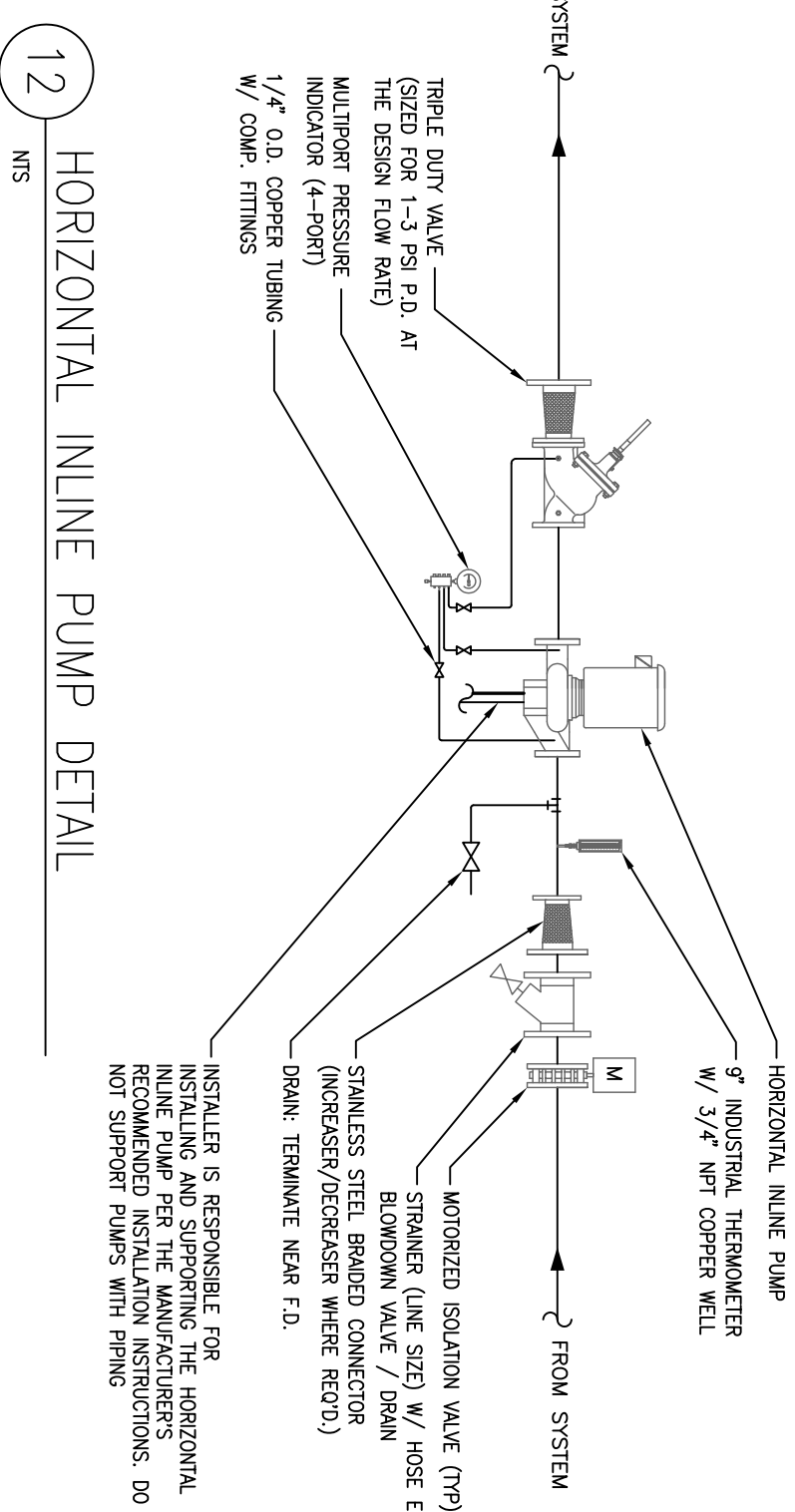
10 WAY TERMINAL BOX SUPPORT
 NIS



NOTES:
 1. PROVIDE HOSE BIBB CONNECTION FOR UNITS IN CEILING SPACE.

- 2. WATER FLOW SHALL BE PRESS COUPLER TO AIR FLOW ISOLATION, TERMINAL UNIT SCHEDULE.
- 3. FINAL CONNECTION TO UNIT SHALL BE BY A FLEXIBLE BRACED HOSE.

11 HOT WATER COIL PIPING DIAGRAM
 NIS



12 HORIZONTAL INLINE PUMP DETAIL
 NIS

95% SUBMISSION

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PRELIMINARY
 NOT FOR
 CONSTRUCTION

MECHANICAL
 DETAILS

PROJECT TITLE
 VAMC
 ENERGY UPGRADES
 PHASE ONE BUILDING 33

BUILDING NUMBER
 33

CHECKED
 RME

DRAWN
 DJH

DWG. NO.
 M3.2

DWG. 20 OF 32

